# RE8040 -BLF440





**AGUA CONTROL LLC** 5609 E ADAMO DRIVE STE.D TAMPA FL, 33619 (813) 621-7774 (813) 621-7776

Ultra -low pressure RO element for lowTDS water

SPECIFICATIONS

General Features

Permeate flow rate: 12,650 GPD (37.4 m<sup>3</sup>/day)

Nominal salt rejection: 99.2%

Effective membrane area: 440 ft<sup>2</sup> (40.9 m<sup>2</sup>)

 The stated product performance is based on data taken after 30 minutes of operationat the following test conditions:

• 500 mg/L NaCl solution at

100 psig (0.7 MPa) applied pressure

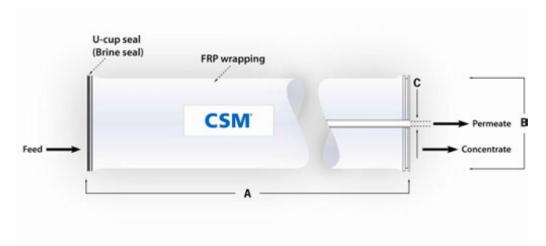
- 15% recovery
- 77 °F (25 °C)
- pH 6.5 -7.0
- 2. Minimum salt rejection is 990%.
- 3. Permeate flow rate for each element may vary but will be no more than 15%.
- 4. All elements are vacuum sealed in a polyethylene bag containing 1.0% SBS (sodium bisulfite) solution and individually packaged in a cardboard box.

Membrane type: Thin-Film Composite
Membrane material : Polyamide(PA)

Element configuration: Spiral-Wound, FRP W rapping

Dimensions and Weight

Model Name	A	В	С	Weight	Part Number	
					Inter - connector	Brine Seal
RE 8040 -B LF440	40.0 inch (1,016 mm)	8.0 inch (201 mm)	1.12 inch (28 mm)	15 kg	40000308	40000309



- 1. Each membrane elemen supplied with one brine seal, one interconnector (coupler) and four o-rings.
- 2. All RE8040 elementsfit nominal 8.0 inch (201 mm) I.D. pressure vessels.
- 3. RE8040-BLF440 element can be also made with a 1.5 inch (38mm) diametercentral pipe.

The information provided in this document is solely for informative purposest is the user's responsibility to ensure the appropriate usage of this productWoongjin Chemical assumes no obligation, liability or damages incurred for the misuse of the product or for the information provided in this documentThis document does not express or implies any warranty as to the merchantability or fitness of the product.

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### APPLICATION DAT A:

Operating Limits	<ul> <li>Max. Pressure Drop / Element</li> </ul>	15 psi (0.1 MPa)
	<ul> <li>Max. Pressure Drop / 240" Vessel</li> </ul>	60 psi (0.41 Mpa)
	<ul> <li>Max. O perating Pressure</li> </ul>	600 psi (4.14 MPa)
	<ul> <li>Max. Feed Flow Rate</li> </ul>	75 gpm (17.0 m³/hr)
	<ul> <li>Min. Concentrate Flow Rate</li> </ul>	16 gpm (3.6 m <sup>3</sup> /hr)
	<ul> <li>Max. O perating Temperature</li> </ul>	113 ∘F (45 ∘C)
	<ul> <li>Operating pH Range</li> </ul>	2.0-11.0
	· CIP pH Range	1.0-13.0
	<ul> <li>Max.Turbidity</li> </ul>	1.0 NTU
	· Max.SDI (15 min)	5.0
	<ul> <li>Max. Chlorine Concentration</li> </ul>	< 0.1 mg/L

Design Guidelines	for Various
Water Sources	

Wastewater Conventional (SDI < 5)	8–12 gfd
Waste water Pretreated by UF/MF (SDI < 3)	10-14 gfd
Seawater, Open Intake (SDI < 5)	7–10 gfd
Seawater, Beach Well (SDI < 3)	8-12 gfd
SurfaceWater (SDI < 5)	12-16 gfd
SurfaceWater (SDI < 3)	13-17 gfd
Well water (SDI < 3)	13-17 gfd
RO permeate (SDI < 1)	21-30 gfd

### Saturation Limits (Using Antiscalants)

Langlier Saturation Index(LSI)	<+1.5
Stiff and Davis Saturation Index(SDSI)	<+0.5

CaSO 4
 SrSO 4
 BaSO 4
 SiO 2
 230% saturation
 800% saturation
 6,000% saturation
 100% saturation

<sup>†</sup>The above saturation limits are typically accepted by proprietary antiscalant manufacturers. It is the user's responsibility to ensure proper chemical(s) and concentrationare dosed ahead of the membrane system to prevent scale formation anywhere within the membrane system. Membrane elements fouled or damaged due to scale formation are not covered by the limited warranty.

#### **GENERAL HANDLING PROCEDURES**

- Elements contained in the boxes must be kept dry at room temperature (7–32°C; 40 –95°F) and should not be stored in direct sunlight. If the polyethylene bag is damaged, a new preservative solution (sodium bisulfite) must be added and air-tight seald to prevent drying and biological growth.
- Permeate from the first hour of operation should be discarded to flush out the preservative solution.
- Elements should be immersed in a preservative solution during storage, shipping and system shutdowns to prevent biological growth and freezing. The standard storage solution contains 1% by weight sodium bisulfite or sodium metabisulfite (food grade). For short term storage (i.e. one week or less) 1% by weight sodium metabisulfite solution is adequate for preventing biological growth.
- Keep elements moist at all times after initial wetting.
- Avoid excessive pressure and flow spikes.
- Only use chemicals compatible with the membrane elements and components. Use of such chemicals may void the element limited warranty.
- Permeate pressure must always be equal or less than the feed/concentrate pressure. Damage caused by permeate back pressure voids the element limited warranty.